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OM protein - protein search, using sw model

Run on: November 30, 2002, 12:35:03 ; Search time 11.5 Seconds
(without alignments)
1286.933 Million cell updates/sec

Title: US-10-025-514-8
Perfect score: 2675
Sequence: 1 MSGSKFKAGVCPKPKSAQCL.....IEQNTKSLFMGKVVNPTQK 503

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA.*
1: /cgn2_6/ptodata/1/1aa/5A_COMB.pep.*
2: /cgn2_6/ptodata/1/1aa/5B_COMB.pep.*
3: /cgn2_6/ptodata/1/1aa/6A_COMB.pep.*
4: /cgn2_6/ptodata/1/1aa/6B_COMB.pep.*
5: /cgn2_6/ptodata/1/1aa/PCTUS_COMB.pep.*
6: /cgn2_6/ptodata/1/1aa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	2052.5	76.7	418	1	US-08-121-714-3
2	2052.5	76.7	418	1	US-08-477-108A-3
3	2052.5	76.7	418	2	US-08-477-112-3
4	2052.5	76.7	418	5	PCT-US93-08322-3
5	2030	75.9	394	3	US-09-023-339-1
6	2024	75.7	394	1	US-08-002-202-6
7	2019	75.5	394	2	US-08-553-488A-1
8	2018	75.4	394	1	US-08-002-202-11
9	2014	75.3	394	3	US-08-421-534-6
10	2013	75.3	394	1	US-08-002-202-9
11	2010.5	75.2	414	1	US-08-002-202-17
12	2010.5	75.2	414	3	US-08-481-534-17
13	2008	75.1	394	3	US-08-481-534-11
14	2004.5	74.9	414	1	US-08-002-202-13
15	2004.5	74.9	414	3	US-08-481-534-13
16	2003	74.9	394	3	US-08-481-534-9
17	1999.5	74.7	414	1	US-08-002-202-19
18	1999.5	74.7	414	3	US-08-481-534-19
19	1392	52.0	308	1	US-07-859-480-2
20	820	30.7	405	1	US-07-829-954-2
21	820	30.7	405	1	US-07-994-423-2
22	820	30.7	405	1	US-08-421-891-2
23	635	23.7	107	2	US-07-963-538B-4
24	635	23.7	132	1	US-08-304-051-21
25	635	23.7	132	5	PCT-US95-11445-21
26	587	21.9	107	3	US-08-483-503A-4
27	545.5	20.4	444	4	US-09-271-608-8
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					Sequence 3, Appli
					Sequence 3, Appli
					Sequence 1, Appli
					Sequence 6, Appli
					Sequence 11, Appli
					Sequence 6, Appli
					Sequence 9, Appli
					Sequence 17, Appli
					Sequence 11, Appli
					Sequence 13, Appli
					Sequence 13, Appli
					Sequence 9, Appli
					Sequence 19, Appli
					Sequence 2, Appli
					Sequence 2, Appli
					Sequence 2, Appli
					Sequence 21, Appli
					Sequence 21, Appli
					Sequence 4, Appli
					Sequence 8, Appli

28	545.5	20.4	444	4	US-09-695-950-8	Sequence 8, Appli
29	545.5	20.4	444	4	US-09-696-147-8	Sequence 8, Appli
30	545.5	20.4	444	4	US-09-696-364-8	Sequence 8, Appli
31	543.5	20.3	436	3	US-08-660-347-2	Sequence 2, Appli
32	530.5	19.8	390	1	US-08-568-147B-2	Sequence 2, Appli
33	527.5	19.7	390	4	US-09-266-910-3	Sequence 4, Appli
34	526.5	19.7	390	4	US-09-266-910-3	Sequence 3, Appli
35	515.5	19.3	376	1	US-08-464-148-4	Sequence 4, Appli
36	515.5	19.3	376	1	US-08-385-500-4	Sequence 4, Appli
37	515.5	19.3	376	1	US-08-846-784-4	Sequence 4, Appli
38	489.5	18.3	382	1	US-07-768-286B-6	Sequence 4, Appli
39	489.5	18.3	382	1	US-08-487-823B-3	Sequence 6, Appli
40	489.5	18.3	382	2	US-09-997-040-3	Sequence 3, Appli
41	489.5	18.3	382	2	US-09-203-237-3	Sequence 3, Appli
42	488.5	18.3	376	4	US-09-200-965-2	Sequence 2, Appli
43	487	18.2	375	1	US-08-121-714-8	Sequence 8, Appli
44	487	18.2	375	1	US-08-477-108A-8	Sequence 8, Appli
45	487	18.2	375	2	US-08-477-112-8	Sequence 8, Appli

ALIGNMENTS

RESULT 1
US-08-121-714-3
; Sequence 3, Application US/08121714
; Patent No. 5470970
; GENERAL INFORMATION:
; APPLICANT: Sager, Ruth
; TITLE OF INVENTION: MASPIN, A NOVEL SERPIN WITH
; TUMOR SUPPRESSING ACTIVITY
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM PS/2 Model 50Z or 55SX
; OPERATING SYSTEM: MS-DOS (Version 5.0)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/121,714
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/938,823
; FILING DATE: 09/01/92
; APPLICATION NUMBER: 07/844,296
; FILING DATE: 02/28/92
; APPLICATION NUMBER: 07/662,216
; FILING DATE: 02/28/91
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 00530/072001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 418
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; US-08-121-714-3
Query Match 76.7%; Score 2052.5; DB 1; Length 418;
Best Local similarity 97.8%; Pred. No. 2.7e-167;

TELEFAX: (617) 542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 418
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-477-108A-3

Query Match
Best Local Similarity 76.7%; Score 2052.5; DB 1; Length 418;
Matches 399; Conservative 2; Mismatches 4; Indels 3; Gaps 1;

QY 96 GCGKSCVPMKAMEDPQDAAQKTDTSHTDQDHPFNKTIPTNLAFAFSLYRLAHQSN 155
DB 14 GLC---CLVPVSLAEDPQDAAQKTDTSHTDQDHPFNKTIPTNLAFAFSLYRLAHQSN 70
QY 156 STNIFSPVSIATAFAMLSLGTADTHDEILLEGFLNLTETPEAQIHGFGFOLLRTLNQ 215
DB 71 STNIFSPVSIATAFAMLSLGTADTHDEILLEGFLNLTETPEAQIHGFGFOLLRTLNQ 130
QY 216 DSQQLTTGNGFLSLGSLKLVDFKLELVKLYHSEAFVNFSGDTEEAQKQINDYVEKGTQ 275
DB 131 DSQQLTTGNGFLSLGSLKLVDFKLELVKLYHSEAFVNFSGDTEEAQKQINDYVEKGTQ 190
QY 276 GKIVDLVKELDRDVTVALVNYIFFKGKWERPEVKDTEEDFHVQDVTTVKVPMMKRLGM 335
DB 191 GKIVDLVKELDRDVTVALVNYIFFKGKWERPEVKDTEEDFHVQDVTTVKVPMMKRLGM 250
QY 336 FNIOHCKKLSWVLLMKYLGNTAIFFLPDEGKLOHLENELTHDITTKFLENEDRRSASL 395
DB 251 FNIOHCKKLSWVLLMKYLGNTAIFFLPDEGKLOHLENELTHDITTKFLENEDRRSASL 310
QY 396 HLPKLSITGTYDLKSVLGQITKVFNSGADLSGVTEEAAPLKLKAVHKAVLTIDEKGT 455
DB 311 HLPKLSITGTYDLKSVLGQITKVFNSGADLSGVTEEAAPLKLKAVHKAVLTIDEKGT 370
QY 456 AAGAMFLEAIPMSIPPEVKENKPFVFLMTEQNTKSPLEMGKVVNPQK 503
DB 371 AAGAMFLEAIPMSIPPEVKENKPFVFLMTEQNTKSPLEMGKVVNPQK 418

RESULT 2
US-08-477-108A-3
Sequence 3, Application US/08477108A
Patent No. 5801001
GENERAL INFORMATION:
APPLICANT: Sager, Ruth
APPLICANT: Anisowicz, Anthony
TITLE OF INVENTION: MASPIN, A NOVEL SERPIN WITH
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" diskette, 1.44 Mb
COMPUTER: IBM PS/2 Model 502 or 55SX
OPERATING SYSTEM: MS-DOS (Version 5.0)
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,108A
FILING DATE: June 7, 1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/121,714
FILING DATE: 09/01/93
APPLICATION NUMBER: 07/938,823
FILING DATE: 09/01/92
APPLICATION NUMBER: 07/844,296
FILING DATE: 02/28/92
APPLICATION NUMBER: 07/662,216
FILING DATE: 02/28/91
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 06570/002002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070

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; APPLICATION NUMBER: 07/844,296
; FILING DATE: 02/28/92
; APPLICATION NUMBER: 07/662,216
; FILING DATE: 02/28/91
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 06570/002003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 418
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; US-08-477-112-3

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Query Match 76.7%; Score 2052.5; DB 2; Length 418;
Best Local Similarity 97.8%; Pred. No. 2.7e-167;
Matches 399; Conservative 2; Mismatches 4; Indels 3; Gaps 1;

QY 96 GCGKSCVSPVKAMEDPQGDAAQKTDTSHHDDHPTFNKIPNLAFAFSLYRQLAHQSN 155
Db 14 GLC---CLVPVSLAEDPQGDAAQKTDTSHHDDHPTFNKIPNLAFAFSLYRQLAHQSN 70
QY 156 STNIFSPVSIATAFAMLSLGTAKDTHDEILGLNFNLTPEAQIHGFGQELLRTLNQ 215
Db 71 STNIFSPVSIATAFAMLSLGTAKDTHDEILGLNFNLTPEAQIHGFGQELLRTLNQ 130
QY 216 DSQQLTTGNGFLSGLKLVDFLEDVKLYHSEAFVNFCDTEAAKQINDYVEKGTQ 275
Db 131 DSQQLTTGNGFLSGLKLVDFLEDVKLYHSEAFVNFCDTEAAKQINDYVEKGTQ 190
QY 276 GKIVDLVKELDRDTVFALVNYIFFKGKWERPEVKDTEEDFHVQDVTTVKVPMMKRLGM 335
Db 191 GKIVDLVKELDRDTVFALVNYIFFKGKWERPEVKDTEEDFHVQDVTTVKVPMMKRLGM 250
QY 336 FNIQCKKLSWVLLMKYLGNTATIFFLPDEGKQLHLENELTHDIITKFLNEDRRSASL 395
Db 251 FNIQCKKLSWVLLMKYLGNTATIFFLPDEGKQLHLENELTHDIITKFLNEDRRSASL 310
QY 396 HLPKLSITGTYDLKSVLGQGITTKVFSNGADLSGVTEAPLKLKSKAVHKAVLTIDEKGT 455
Db 311 HLPKLSITGTYDLKSVLGQGITTKVFSNGADLSGVTEAPLKLKSKAVHKAVLTIDEKGT 370
QY 456 AAGAMFLEAIPMSIPPEVKFNKPFVFLMIEQNTKSPFLMGKVVNPTQK 503
Db 371 AAGAMFLEAIPMSIPPEVKFNKPFVFLMIEQNTKSPFLMGKVVNPTQK 418

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RESULT 4
PCT-US93-08322-3
; Sequence 3, Application PC/TUS9308322
; GENERAL INFORMATION:
; APPLICANT: Sager, Ruth
; TITLE OF INVENTION: MASPIN, A NOVEL SERPIN WITH TUMOR SUPPRESSING ACTIVITY
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM PS/2 Model 502 or 555x
; OPERATING SYSTEM: MS-DOS (Version 5.0)
; SOFTWARE: Wordperfect (Version 5.1)
; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: PCT/US93/08322
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION NUMBER: 07/938,823
; FILING DATE: 09/01/92
; APPLICATION NUMBER: 07/844,296
; FILING DATE: 02/28/92
; APPLICATION NUMBER: 07/662,216
; FILING DATE: 02/28/91
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 00530/072001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 418
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; PCT-US93-08322-3

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Query Match 76.7%; Score 2052.5; DB 5; Length 418;
Best Local Similarity 97.8%; Pred. No. 2.7e-167;
Matches 399; Conservative 2; Mismatches 4; Indels 3; Gaps 1;

QY 96 GCGKSCVSPVKAMEDPQGDAAQKTDTSHHDDHPTFNKIPNLAFAFSLYRQLAHQSN 155
Db 14 GLC---CLVPVSLAEDPQGDAAQKTDTSHHDDHPTFNKIPNLAFAFSLYRQLAHQSN 70
QY 156 STNIFSPVSIATAFAMLSLGTAKDTHDEILGLNFNLTPEAQIHGFGQELLRTLNQ 215
Db 71 STNIFSPVSIATAFAMLSLGTAKDTHDEILGLNFNLTPEAQIHGFGQELLRTLNQ 130
QY 216 DSQQLTTGNGFLSGLKLVDFLEDVKLYHSEAFVNFCDTEAAKQINDYVEKGTQ 275
Db 131 DSQQLTTGNGFLSGLKLVDFLEDVKLYHSEAFVNFCDTEAAKQINDYVEKGTQ 190
QY 276 GKIVDLVKELDRDTVFALVNYIFFKGKWERPEVKDTEEDFHVQDVTTVKVPMMKRLGM 335
Db 191 GKIVDLVKELDRDTVFALVNYIFFKGKWERPEVKDTEEDFHVQDVTTVKVPMMKRLGM 250
QY 336 FNIQCKKLSWVLLMKYLGNTATIFFLPDEGKQLHLENELTHDIITKFLNEDRRSASL 395
Db 251 FNIQCKKLSWVLLMKYLGNTATIFFLPDEGKQLHLENELTHDIITKFLNEDRRSASL 310
QY 396 HLPKLSITGTYDLKSVLGQGITTKVFSNGADLSGVTEAPLKLKSKAVHKAVLTIDEKGT 455
Db 311 HLPKLSITGTYDLKSVLGQGITTKVFSNGADLSGVTEAPLKLKSKAVHKAVLTIDEKGT 370
QY 456 AAGAMFLEAIPMSIPPEVKFNKPFVFLMIEQNTKSPFLMGKVVNPTQK 503
Db 371 AAGAMFLEAIPMSIPPEVKFNKPFVFLMIEQNTKSPFLMGKVVNPTQK 418

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RESULT 5
US-09-023-339-1
; Sequence 1, Application US/09023339
; Patent No. 6127145
; GENERAL INFORMATION:
; APPLICANT: Sutliff, Thomas D.
; APPLICANT: Rodriguez, Raymond L.
; TITLE OF INVENTION: Production of '1-Antitrypsin
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dehlinger & Associates
; STREET: P.O. Box 60850
; CITY: Palo Alto

```

us-10-025-514-8.ra

Mon Dec 9 12:51:01 2002

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;
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,339
; FILING DATE: 13-FEB-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/037,991
; FILING DATE: 13-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Petithory, Joanne R
; REGISTRATION NUMBER: 942,995
; REFERENCE/DOCKET NUMBER: 0665-0003.30
; TELEPHONE: 650-324-0880
; TELEFAX: 650-324-0960
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 394 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; IMMEDIATE SOURCE:
; CLONE: mature AAR amino acid sequence
;
; US-09-023-339-1
;
; TITLE OF INVENTION: Methods and Reagents for Inhibiting
; TITLE OF INVENTION: Furin Endoprotease
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Allegretti and Witcoff, Ltd.
; STREET: 10 South Wacker Drive, Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/002,202
; FILING DATE: 08-JAN-1993
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5604201nan, Kevin E
; REGISTRATION NUMBER: 35,30003
; REFERENCE/DOCKET NUMBER: 92,448
; TELEPHONE: 312-715-1000
; TELEFAX: 312-715-1234
; TELECOMMUNICATION INFORMATION:
;
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 394 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
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; US-08-002-202-6

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Query Match 75.9%; Score 2030; DB 3; Length 394;
Best Local Similarity 100.0%; Pred. No. 2.1e-165;
Matches 394; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 110 EDPOGDAQAQKTDTHSHDQDHPFNKIPNLAFAFSLYROLAQHSNSTNIFPSVSIATA 169
DB 1 EDPOGDAQAQKTDTHSHDQDHPFNKIPNLAFAFSLYROLAQHSNSTNIFPSVSIATA 60
QY 170 FAMLISLTKADTHDEILEGLNPNLTPNLAFAFSLYROLAQHSNSTNIFPSVSIATA 229
DB 61 FAMLISLTKADTHDEILEGLNPNLTPNLAFAFSLYROLAQHSNSTNIFPSVSIATA 120
QY 230 SEGKLVDFKLEVDKLYHSEAFVNFQDTEAKKQINDYVEKGTQGIKIVDLVKELDRDT 289
DB 121 SEGKLVDFKLEVDKLYHSEAFVNFQDTEAKKQINDYVEKGTQGIKIVDLVKELDRDT 180
QY 290 VFALVNYIFFKQKWERPFEVKDTEEDFHVQDVTTVKVPMMKRLGMFNIOHCKLSSWVL 349
DB 181 VFALVNYIFFKQKWERPFEVKDTEEDFHVQDVTTVKVPMMKRLGMFNIOHCKLSSWVL 240
QY 350 LMKYLGNAATFPLPDEGKLOHLENELTHDITTKFLENEDRRSASLHLPKLSITGTIDLK 409
DB 241 LMKYLGNAATFPLPDEGKLOHLENELTHDITTKFLENEDRRSASLHLPKLSITGTIDLK 300
QY 410 SVLGQGITKTVFSNGADLSGVTEAPLKLKSAVKHKAULTIDEKTEAAGAMFLEAIPMSI 469
DB 301 SVLGQGITKTVFSNGADLSGVTEAPLKLKSAVKHKAULTIDEKTEAAGAMFLEAIPMSI 360
QY 470 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTQK 503
DB 361 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTQK 394

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RESULT 6
US-08-002-202-6
; Sequence 6, Application US/08002202
; Patent No. 5604201
; GENERAL INFORMATION:
; APPLICANT: Thomas, Garry
; APPLICANT: Anderson, Eric D
; APPLICANT: Thomas, Laurel
; APPLICANT: Hayillick, Joel S

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Query Match 75.7%; Score 2024; DB 1; Length 394;
Best Local Similarity 99.5%; Pred. No. 6.8e-165;
Matches 392; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 110 EDPOGDAQAQKTDTHSHDQDHPFNKIPNLAFAFSLYROLAQHSNSTNIFPSVSIATA 169
DB 1 EDPOGDAQAQKTDTHSHDQDHPFNKIPNLAFAFSLYROLAQHSNSTNIFPSVSIATA 60
QY 170 FAMLISLTKADTHDEILEGLNPNLTPNLAFAFSLYROLAQHSNSTNIFPSVSIATA 229
DB 61 FAMLISLTKADTHDEILEGLNPNLTPNLAFAFSLYROLAQHSNSTNIFPSVSIATA 120
QY 230 SEGKLVDFKLEVDKLYHSEAFVNFQDTEAKKQINDYVEKGTQGIKIVDLVKELDRDT 289
DB 121 SQGLKLVDFKLEVDKLYHSEAFVNFQDTEAKKQINDYVEKGTQGIKIVDLVKELDRDT 180
QY 290 VFALVNYIFFKQKWERPFEVKDTEEDFHVQDVTTVKVPMMKRLGMFNIOHCKLSSWVL 349
DB 181 VFALVNYIFFKQKWERPFEVKDTEEDFHVQDVTTVKVPMMKRLGMFNIOHCKLSSWVL 240
QY 350 LMKYLGNAATFPLPDEGKLOHLENELTHDITTKFLENEDRRSASLHLPKLSITGTIDLK 409
DB 241 LMKYLGNAATFPLPDEGKLOHLENELTHDITTKFLENEDRRSASLHLPKLSITGTIDLK 300
QY 410 SVLGQGITKTVFSNGADLSGVTEAPLKLKSAVKHKAULTIDEKTEAAGAMFLEAIPMSI 469
DB 301 SVLGQGITKTVFSNGADLSGVTEAPLKLKSAVKHKAULTIDEKTEAAGAMFLEAIPMSI 360
QY 470 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTQK 503
DB 361 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTQK 394

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RESULT 7
US-08-553-488A-1
; Sequence 1, Application US/08553488A
; Patent No. 5817484
; GENERAL INFORMATION:

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APPLICANT: YU, Myeong-Hee
APPLICANT: KWON, Ki-Sun
APPLICANT: LEE, Kee-Nyung
APPLICANT: SHIN, Hwa-Soo
TITLE OF INVENTION: THERMORESISTANT ALPHA-1-ANTITRYPSIN
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: YU, Myeong-Hee
STREET: 3-1003, Hankang Apartment, 49-8, Jamsil-dong,
STREET: Seocho-gu
CITY: Seoul
STATE: Seoul
COUNTRY: Republic of Korea
ZIP: 137-030
ADDRESSEE: KWON, Ki-Sun
STREET: 130-1306, Hanbit Apartment, Oun-dong,
STREET: Yuseong-gu
CITY: Taejeon
STATE: Taejeon
COUNTRY: Republic of Korea
ZIP: 305-333
ADDRESSEE: LEE, Kee-Nyung
STREET: 105-1004, Hanbit Apartment, Oun-dong,
STREET: Yuseong-gu
CITY: Taejeon
STATE: Taejeon
COUNTRY: Republic of Korea
ZIP: 305-333
ADDRESSEE: SHIN, Hwa-Soo
STREET: 3-303, Sindonga Apartment, Yongjeon-dong,
STREET: Dong-gu
CITY: Taejeon
STATE: Taejeon
COUNTRY: Republic of Korea
ZIP: 300-200
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5inch, 1.44MB storage
COMPUTER: IBM PC/AT
OPERATING SYSTEM: MS-DOS
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/553,488A
FILING DATE: 20-NOV-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: KR 93-8510
FILING DATE: 18-MAY-1993
ATTORNEY/AGENT INFORMATION:
NAME:
REGISTRATION NUMBER:
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE:
TELEFAX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 394 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
OTHER INFORMATION: wild type human '-1-antitrypsin
US-08-553-488A-1

Query Match 75.5%; Score 2019; DB 2; Length 394;
Best Local Similarity 99.2%; Pred. No 1.8e-164;
Matches 391; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 110 EDPOGDAQAQKTDTHSHDQDHTFNKTPNLAFAFSLYQLAHQSNSTIFFSPVSIATA 169
Db 1 EDPOGDAQAQKTDTHSHDQDHTFNKTPNLAFAFSLYQLAHQSNSTIFFSPVSIATA 60

QY 170 FAMLSTGKADTHDEILEGLNLFNLTPEAQIHEGFQELLRLTNOPDSQLQITGNGLFL 229
Db 61 FAMLSTGKADTHDEILEGLNLFNLTPEAQIHEGFQELLRLTNOPDSQLQITGNGLFL 120
QY 230 SEGKLKLVDFLEVDKLLHSEAFVNFQDTEEAQKQINDYVEKGTQGIKIVDLVKELDRDT 289
Db 121 SEGKLKLVDFLEVDKLLHSEAFVNFQDTEEAQKQINDYVEKGTQGIKIVDLVKELDRDT 180
QY 290 VFALVNYIFFKKGWERPFVKDTEEDFHVQVTVKVPMMKRLGMFNIOHCKKLSKVL 349
Db 181 VFALVNYIFFKKGWERPFVKDTEEDFHVQVTVKVPMMKRLGMFNIOHCKKLSKVL 240
QY 350 LMKYLGNTAIFFLPDEKGLQHLNELTHDITTKFLENEDRRSASLHLPKLSITGTDLK 409
Db 241 LMKYLGNTAIFFLPDEKGLQHLNELTHDITTKFLENEDRRSASLHLPKLSITGTDLK 300
QY 410 SVLGOLGITKVFESGADLSGVTEEAAPLKLKSAVHKAVLTIDEKTEAAGAMFLEAIPMSI 469
Db 301 SVLGOLGITKVFESGADLSGVTEEAAPLKLKSAVHKAVLTIDEKTEAAGAMFLEAIPMSI 360
QY 470 PPEVKFNKPFVFLMIEQNTKSPFMGKVVNPTQK 503
Db 361 PPEVKFNKPFVFLMIDQNTKSPFMGKVVNPTQK 394

RESULT 8

US-08-002-202-11
; Sequence 11, Application US/08002202
; Patent No. 5604201
; GENERAL INFORMATION:
; APPLICANT: Thomas, Garry
; APPLICANT: Anderson, Eric D
; APPLICANT: Thomas, Laurel
; APPLICANT: Hayflick, Joel S
; TITLE OF INVENTION: Methods and Reagents for Inhibiting
; TITLE OF INVENTION: Furin Endoprotease
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Allegretti and Witcoff, Ltd.
; STREET: 10 South Wacker Drive, Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/002,202
; FILING DATE: 08-JAN-1993
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5604201nan, Kevin E
; REGISTRATION NUMBER: 35,30003
; REFERENCE/DOCKET NUMBER: 92,448
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-715-1000
; TELEFAX: 312-715-1234
; TELE: 910-221-5317
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 394 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..394
; OTHER INFORMATION: /label= Variants
; OTHER INFORMATION: /note= "This amino acid sequence is the amino acid
; OTHER INFORMATION: sequence of the modified alpha-1-antitrypsin

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; TELEX:
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 394 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
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; US-08-481-534-6
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;
; Query Match 75.3%; Score 2014; DB 3; Length 394;
; Best Local Similarity 99.0%; Pred. No. 4.8e-164;
; Matches 390; Conservative 3; Mismatches 1; Indels 0; Gaps
;
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; QY 110 EDPOGDAQAOKTDTSHHDQDHPFTFNKITPLNLAFAFSLYROLAHQSNTNIFSPVSIATA 169
; DB 1 EDPOGDAQAOKTDTSHHDQDHPFTFNKITPLNLAFAFSLYROLAHQSNTNIFSPVSIATA 60
;
; QY 170 FAMLSLGTKADTHDEILEGLNFNLTPEPAQIHGFSFOELLFTLNQDPSQLQTGTGNGLFL 229
; DB 61 FAMLSLGTKADTHDEILEGLNFNLTQIPEAQIHGFSFOELLFTLNQDPSQLQTGTGNGLFL 120
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; QY 230 SEGKLKVDKFLVDVKLIYHSEAFVNFVGDTEAKKQINDYVEKGTQCKIYDLVKELDRDT 289
; DB 121 SGLKLKVDKFLVDVKLIYHSEAFVNFVGDTEAKKQINDYVEKGTQCKIYDLVKELDRDT 180
;
; QY 290 VFALVNYIFFKWKWERPFVKDTEEDFHVQDVTTVKYPMMKRLGMFNIHQCKLSSWVL 349
; DB 181 VFALVNYIFFKWKWERPFVKDTEEDFHVQDVTTVKYPMMKRLGMFNIHQCKLSSWVL 240
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; QY 350 LMKYLGNATAIFFLPDSEGLQHLLENELTHDITKTFLENEDRRSASLHLPKLSITGYDLK 409
; DB 241 LMKYLGNATAIFFLPDSEGLQHLLENELTHDITKTFLENEDRRSASLHLPKLSITGYDLK 300
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; QY 410 SVLGLGKITKTVFSGADLSGVTEAPLKLKSAVKHKAVALTIDEKGTAAAGAMFLEAIPMSI 469
; DB 301 SVLGLGKITKTVFSGADLSGVTEAPLKLKSAVKHKAVALTIDEKGTAAAGAMFLEAIPMSI 360
;
; QY 470 PPEVFNKPFVFLMIEQNTKSPFLFMGKVYNPTQK 503
; DB 361 PPEVFNKPFVFLMIEQNTKSPFLFMGKVYNPTQK 394
;
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; RESULT 10
; US-08-002-202-9
; Sequence 9, Application US/08002202
; Patent No. 5604201
;
; GENERAL INFORMATION:
;
; APPLICANT: Thomas, Garry
; APPLICANT: Anderson, Eric D
; APPLICANT: Thomas, Laurel
; APPLICANT: Haylick, Joel S
; TITLE OF INVENTION: Methods and Reagents for Inhibiting
; TITLE OF INVENTION: Furin Endoprotease
; NUMBER OF SEQUENCES: 21
;
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Allegretti and Witcoff, Ltd.
; STREET: 10 South Wacker Drive, Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/002,202
; FILING DATE: 08-JAN-1993
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5604201nan, Kevin E
; REGISTRATION NUMBER: 35,30003
;

```

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; REFERENCE/DOCKET NUMBER: 92,448
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-715-1000
; TELEFAX: 312-715-1234
; TELEX: 910-221-5317
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 394 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..394
; OTHER INFORMATION: /label= Variant
; OTHER INFORMATION: /note= "this amino acid sequence is the amino acid
; OTHER INFORMATION: sequence of the modified alpha-1-antitrypsin
; OTHER INFORMATION: protein, alpha-1-antitrypsin Portland."
;
US-08-002-202-9

Query Match 75.3%; Score 2013; DB 1; Length 394;
Best Local Similarity 99.0%; Pred. No. 5.9e-164;
Matches 390; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 110 EDPOGDAQAQKTDTSRHHDDHPTFNKITPNLAFAFSLYRQLAHQSNSTNIFPSPVSIATA 169
Db 1 EDPOGDAQAQKTDTSRHHDDHPTFNKITPNLAFAFSLYRQLAHQSNSTNIFPSPVSIATA 60

QY 170 FAMLSTGTRADTHDEILEGLNENLTIPEAQIHEGFOELLRTLNQDPSQLQTLTGNGLFL 229
Db 61 FAMLSTGTRADTHDEILEGLNENLTIPEAQIHEGFOELLRTLNQDPSQLQTLTGNGLFL 120

QY 230 SEGKLVDKFLVDKLYLHSEAFVNFQGTTEAKKQINDYVEKGTQKIVDLVKELDRDT 289
Db 121 SOGLKLVDFKFLVDKLYLHSEAFVNFQGTTEAKKQINDYVEKGTQKIVDLVKELDRDT 180

QY 290 VFALVNYIFFKGKWERPFVKDTEEDFHVQDVTTVKVPMMKRLGMFNIOHCKKLSSWVL 349
Db 181 VFALVNYIFFKGKWERPFVKDTEEDFHVQDVTTVKVPMMKRLGMFNIOHCKKLSSWVL 240

QY 350 LMKYLGNAATAIFFLPDEGLQHLNELTHDITTKFLENEDRRSASLHLPKLSITGTIDLK 409
Db 241 LMKYLGNAATAIFFLPDEGLQHLNELTHDITTKFLENEDRRSASLHLPKLSITGTIDLK 300

QY 410 SVLGQGITKVFSGADLSGVTEAPLKLKAVHKAVLTIDEKGTAAAGAMFLEAIPMSI 469
Db 301 SVLGQGITKVFSGADLSGVTEAPLKLKAVHKAVLTIDEKGTAAAGAMFLEAIPMSI 360

QY 470 PPEVKFNKPFVFLMIEQNTKSPLEFMGKVYNPTQK 503
Db 361 PPEVKFNKPFVFLMIEQNTKSPLEFMGKVYNPTQK 394

RESULT 11
US-08-002-202-17
; Sequence 17, Application US/08002202
; Patent No. 5604201
; GENERAL INFORMATION:
; APPLICANT: Thomas, Gary
; APPLICANT: Anderson, Eric D
; APPLICANT: Thomas, Laurel
; APPLICANT: Hayflick, Joel S
; TITLE OF INVENTION: Methods and Reagents for Inhibiting
; TITLE OF INVENTION: Furin Endoprotease
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Allegretti and Witcoff, Ltd.
; STREET: 10 South Wacker Drive, Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
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; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/002.202
; FILING DATE: 08-JAN-1993
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5604201nan, Kevin E
; REGISTRATION NUMBER: 35,30003
; REFERENCE/DOCKET NUMBER: 92,448
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-715-1000
; TELEFAX: 312-715-1234
; TELEX: 910-221-5317
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 414 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
US-08-002-202-17

Query Match 75.2%; Score 2010.5; DB 1; Length 414;
Best Local Similarity 96.3%; Pred. No. 1e-163;
Matches 393; Conservative 3; Mismatches 5; Indels 7; Gaps 2;

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Db 14 GCGKSCSVSPYKAMEDPQGDAAQKTDTSRHHDDHPTFNKITPNLAFAFSLYRQLAHQSN 70

QY 156 STNIFPSPVSIATAPFAMLSLGTAKADTHDEILEGLNENLTIPEAQIHEGFOELLRTLNQ 215
Db 71 STNIFPSPVSIATAPFAMLSLGTAKADTHDEILEGLNENLTIPEAQIHEGFOELLRTLN-- 128

QY 216 DSQQLTTGNGLFLSEGLKLVKDFLEVDKLYLHSEAFVNFQGTTEAKKQINDYVEKGTQ 275
Db 129 --QQLTTGNGLFLSEGLKLVKDFLEVDKLYLHSEAFVNFQGTTEAKKQINDYVEKGTQ 186

QY 276 GKIVDLVKELDRDTVFALVNYIFFKGKWERPFVKDTEEDFHVQDVTTVKVPMMKRLGM 335
Db 187 GKIVDLVKELDRDTVFALVNYIFFKGKWERPFVKDTEEDFHVQDVTTVKVPMMKRLGM 246

QY 336 FNIOHCKKLSSWVLMMKYLGNATAIFFLPDEGLQHLNELTHDITTKFLENEDRRSASL 395
Db 247 FNIOHCKKLSSWVLMMKYLGNATAIFFLPDEGLQHLNELTHDITTKFLENEDRRSASL 306

QY 396 HLPKLSITGTIDLSVLGQGITKVFSGADLSGVTEAPLKLKAVHKAVLTIDEKGT 455
Db 307 HLPKLSITGTIDLSVLGQGITKVFSGADLSGVTEAPLKLKAVHKAVLTIDEKGT 366

QY 456 AAGAMFLEAIPMSIPPEVKFNKPFVFLMIEQNTKSPLEFMGKVYNPTQK 503
Db 367 AAGAMFLEAIPMSIPPEVKFNKPFVFLMIEQNTKSPLEFMGKVYNPTQK 414

RESULT 12
US-08-481-534-17
; Sequence 17, Application US/08481534
; Patent No. 6022855
; GENERAL INFORMATION:
; APPLICANT: Thomas, Gary
; APPLICANT: Anderson, Eric D
; APPLICANT: Thomas, Laurel
; APPLICANT: Hayflick, Joel S
; APPLICANT: Nelson, Jay
; APPLICANT: Stenglen, Stephan G
; TITLE OF INVENTION: Methods and Reagents for Inhibiting Furin
; TITLE OF INVENTION: Endoprotease
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
```

STREET: 300 South Wacker Drive
CITY: Chicago
STATE: IL
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/481,534
FILING DATE: 14-SEP-1995
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: No. 6022855nan, Kevin E
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 92,448-D
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-913-0001
TELEFAX: 312-913-0002
TELEX:
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 414 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-481-534-17

Query Match 75.2%; Score 2010.5; DB 3; Length 414;
Best Local Similarity 96.3%; Pred. No. 1e-163;
Matches 393; Conservative 3; Mismatches 5; Indels 7; Gaps 2;
QY 96 GCGKSCVSPKAMEDPGDAAQKTDTSHTDQDPTFNKIPNLAEPFSLYRQLAHQSN 155
DB 14 GLC---CLVPVSLAEDPGDAAQKTDTSHTDQDPTFNKIPNLAEPFSLYRQLAHQSN 70
QY 156 SNIFSPVSTATAFAMLSLGTADTHDEILEGLNFNLTPEPAQIHEGFQELLRTLNQP 215
DB 71 SNIFSPVSTATAFAMLSLGTADTHDEILEGLNFNLTPEPAQIHEGFQELLRTLN-- 128
QY 216 DSQQLTTGNGLFLSEGKLVKDFLEVDVKLYHSEAFVNFVGDTEEAQKQINDYVEKGTQ 275
DB 129 --QLQTTGNGLFLSEGKLVKDFLEVDVKLYHSEAFVNFVGDTEEAQKQINDYVEKGTQ 186
QY 276 GKIVDLVKELDRDTVFALVNIFFKQKWERPFVKDTEEDFHVQDQVTVKVPMMKRLGM 335
DB 187 GKIVDLVKELDRDTVFALVNIFFKQKWERPFVKDTEEDFHVQDQVTVKVPMMKRLGM 246
QY 336 FNIQCKKLSWVLLMKYLGNAITFFLPDEGKQLQHLNLTHTDITKFLNEDRRSASL 395
DB 247 FNIQCKKLSWVLLMKYLGNAITFFLPDEGKQLQHLNLTHTDITKFLNEDRRSASL 306
QY 396 HLPKLSITGTVDLKSVLGOLGKITKVFSGNADLSGVTEEAAPLKSAVKAVLTIDEKGT 455
DB 307 HLPKLSITGTVDLKSVLGOLGKITKVFSGNADLSGVTEEAAPLKSAVKAVLTIDEKGT 366
QY 456 AGAMFLEAIPMSIPPEVKFNKPPFVFLMIQNTKSPFLFMGKVNPQTOK 503
DB 367 AGAMFLEAIPMSIPPEVKFNKPPFVFLMIQNTKSPFLFMGKVNPQTOK 414

RESULT 13
US-08-481-534-11
Sequence 11, Application US/08481534
Patent No. 6022855
GENERAL INFORMATION:
APPLICANT: Thomas, Gary
APPLICANT: Anderson, Eric D
APPLICANT: Thomas, Laurel
APPLICANT: Hayflick, Joel S
APPLICANT: Nelson, Jay

APPLICANT: Stenglen, Stephan G
TITLE OF INVENTION: Methods and Reagents for Inhibiting Furin
TITLE OF INVENTION: Endoprotease
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
STREET: 300 South Wacker Drive
CITY: Chicago
STATE: IL
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/481,534
FILING DATE: 14-SEP-1995
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: No. 6022855nan, Kevin E
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 92,448-D
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-913-0001
TELEFAX: 312-913-0002
TELEX:
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 394 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Modified site
LOCATION: 355..358
OTHER INFORMATION: /label=Variant
OTHER INFORMATION: /note="The amino acid sequence is the amino acid
sequence of the modified alpha-1-antitrypsin
protein, alpha-1-antitrypsin Pittsburgh."
US-08-481-534-11

Query Match 75.1%; Score 2008; DB 3; Length 394;
Best Local Similarity 98.7%; Pred. No. 1.6e-163;
Matches 389; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
QY 110 EDPQDAAQKTDTSHTDQDPTFNKIPNLAEPFSLYRQLAHQSNSTNIFSPVSIATA 169
DB 1 EDPQDAAQKTDTSHTDQDPTFNKIPNLAEPFSLYRQLAHQSNSTNIFSPVSIATA 60
QY 170 FAMLSTGTADTHDEILEGLNFNLTPEPAQIHEGFQELLRTLNQDPSOLOLTTGNGLFL 229
DB 61 FAMLSTGTADTHDEILEGLNFNLTPEPAQIHEGFQELLRTLNQDPSOLOLTTGNGLFL 120
QY 230 SEGKLVKDFLEVDVKLYHSEAFVNFVGDTEEAQKQINDYVEKGTQKIVDLVKELDRDT 289
DB 121 SQGLKLVDFLEVDVKLYHSEAFVNFVGDTEEAQKQINDYVEKGTQKIVDLVKELDRDT 180
QY 290 VFALVNIFFKQKWERPFVKDTEEDFHVQDQVTVKVPMMKRLGMNTOHCKKLSWV 349
DB 181 VFALVNIFFKQKWERPFVKDTEEDFHVQDQVTVKVPMMKRLGMNTOHCKKLSWV 240
QY 350 LMKYLGNAITFFLPDEGKQLQHLNLTHTDITKFLNEDRRSASLHLPKLSITGTVDL 409
DB 241 LMKYLGNAITFFLPDEGKQLQHLNLTHTDITKFLNEDRRSASLHLPKLSITGTVDL 300
QY 410 SVLGOLGKITKVFSGNADLSGVTEEAAPLKSAVKAVLTIDEKGTAAAGAMFLEAIPMSI 469
DB 301 SVLGOLGKITKVFSGNADLSGVTEEAAPLKSAVKAVLTIDEKGTAAAGAMFLEAIPRSI 360
QY 470 PPEVKFNKPPFVFLMIQNTKSPFLFMGKVNPQTOK 503
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Db 361 PPEVKFNKPFVFLMIEQNTKSPLEMGKVVNPTGK 394

RESULT 14

US-08-002-202-13

; Sequence 13, Application US/08002202

; Patent No. 5604201

; GENERAL INFORMATION:

; APPLICANT: Thomas, Garry

; APPLICANT: Anderson, Eric D

; APPLICANT: Thomas, Laurel

; APPLICANT: Hayflick, Joel S

; TITLE OF INVENTION: Methods and Reagents for Inhibiting

; TITLE OF INVENTION: Furin Endoprotease

; NUMBER OF SEQUENCES: 21

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Allegretti and Witcoff, Ltd.

; STREET: 10 South Wacker Drive, Suite 3000

; CITY: Chicago

; STATE: Illinois

; COUNTRY: USA

; ZIP: 60606

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/002.202

; FILING DATE: 08-JAN-1993

; CLASSIFICATION: 514

; ATTORNEY/AGENT INFORMATION:

; NAME: No. 5604201nan, Kevin E

; REGISTRATION NUMBER: 35,30003

; REFERENCE/DOCKET NUMBER: 92,448

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 312-715-1000

; TELEFAX: 312-715-1234

; TELEX: 910-221-5317

; INFORMATION FOR SEQ ID NO: 13:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 414 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-002-202-13

Query Match 74.9%; Score 2004.5; DB 1; Length 414;

Best Local Similarity 96.1%; Pred. No. 3.4e-163;

Matches 392; Conservative 3; Mismatches 6; Indels 7; Gaps 2;

Qy 96 GMSGKSCVSPVKAMEDPGDAAQKTDTSHDDHPTFNKIPNLAEFAFSLYRLAHQSN 155

Db 14 GLC---CLVPVSLAEDPGDAAQKTDTSHDDHPTFNKIPNLAEFAFSLYRLAHQSN 70

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Db 71 STNIFSPVSIATAFAMLSLGTADTHDEILGLNLFNLTETPEAQIHGFGQELLRTLN-- 128

Qy 216 DSQQLTTGNGFLFSEGLKLVKDFLEDVKKLYHSEAFVNFPGDTEAKKQINDYVEKGTQ 275

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Qy 276 GKIVDLVKELDRDTVFALVNIFFKQKWRPFVKDTEEDDFHVDQVTVKVPMMKRLGM 335

Db 187 GKIVDLVKELDRDTVFALVNIFFKQKWRPFVKDTEEDDFHVDQVTVKVPMMKRLGM 246

Qy 336 FNIQCKKLSWVLMKYLGNATAIFFLPDEGKQLHLENELTHDIIITKFLNEDRRSASL 395

Db 247 FNIQCKKLSWVLMKYLGNATAIFFLPDEGKQLHLENELTHDIIITKFLNEDRRSASL 306

Qy 396 HLPKLSITGTYDLKSVLGQIGITKVFNSGADLSGVTEAPLKSKAVHKAVLTIDEKGT 455

|||||

Db 307 HLPKLSITGTYDLKSVLGQIGITKVFNSGADLSGVTEAPLKSKAVHKAVLTIDEKGT 366

Qy 456 AAGAMFLEAIPMSIPPEVKFNKPFVFLMIEQNTKSPLEMGKVVNPTQK 503

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Db 367 AAGAMFLEAIPMSIPPEVKFNKPFVFLMIEQNTKSPLEMGKVVNPTQK 414

RESULT 15

US-08-481-534-13

; Sequence 13, Application US/08481534

; Patent No. 6022855

; GENERAL INFORMATION:

; APPLICANT: Thomas, Gary

; APPLICANT: Anderson, Eric D

; APPLICANT: Thomas, Laurel

; APPLICANT: Hayflick, Joel S

; APPLICANT: Nelson, Jay

; APPLICANT: Stenglen, Stephan G

; TITLE OF INVENTION: Methods and Reagents for Inhibiting Furin

; TITLE OF INVENTION: Endoprotease

; NUMBER OF SEQUENCES: 21

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff

; STREET: 300 South Wacker Drive

; CITY: Chicago

; STATE: IL

; COUNTRY: USA

; ZIP: 60606

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/481,534

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; INFORMATION FOR SEQ ID NO: 13:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 414 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-481-534-13

Query Match 74.9%; Score 2004.5; DB 3; Length 414;

Best Local Similarity 96.1%; Pred. No. 3.4e-163;

Matches 392; Conservative 3; Mismatches 6; Indels 7; Gaps 2;

Qy 96 GMSGKSCVSPVKAMEDPGDAAQKTDTSHDDHPTFNKIPNLAEFAFSLYRLAHQSN 155

Db 14 GLC---CLVPVSLAEDPGDAAQKTDTSHDDHPTFNKIPNLAEFAFSLYRLAHQSN 70

Qy 156 STNIFSPVSIATAFAMLSLGTADTHDEILGLNLFNLTETPEAQIHGFGQELLRTLNQ 215

Db 71 STNIFSPVSIATAFAMLSLGTADTHDEILGLNLFNLTETPEAQIHGFGQELLRTLN-- 128

Qy 216 DSQQLTTGNGFLFSEGLKLVKDFLEDVKKLYHSEAFVNFPGDTEAKKQINDYVEKGTQ 275

Db 129 --QLQLTGNGFLFSEGLKLVKDFLEDVKKLYHSEAFVNFPGDTEAKKQINDYVEKGTQ 186

Qy 276 GKIVDLVKELDRDTVFALVNIFFKQKWRPFVKDTEEDDFHVDQVTVKVPMMKRLGM 335

Db 187 GKIVDLVKELDRDTVFALVNIFFKQKWRPFVKDTEEDDFHVDQVTVKVPMMKRLGM 246

|||||

Qy 336 FNIQCKKLSWVLLMKYLGNAIFLDPDEGKLOHLENELTHDIIITKPLENEDRRSASL 395
Db 247 FNIQCKKLSWVLLMKYLGNAIFLDPDEGKLOHLENELTHDIIITKPLENEDRRSASL 306
Qy 396 HLPKLSITGTVDLKSVLGQLGITKVFNSGADLSGVTEEAPLKS KAVHKA VLTIDEKGTE 455
Db 307 HLPKLSITGTVDLKSVLGQLGITKVFNSGADLSGVTEEAPLKS KAVHKA VLTIDEKGTE 366
Qy 456 AAGAMFLEAIPMSIPPEVKFNKPFVFLMIEQNTKSPLEFMGKVVNPTOK 503
Db 367 AAGAMFLEAIPMSIPPEVKFNKPFVFLMIEQNTKSPLEFMGKVVNPTOK 414

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